

6/30/03

Sheet 1 of 2

FORM PTO-1449
(REV. 7-80)
(Title Amended 3/83)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

121278-1

SERIAL NO.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT--

LIST OF ITEMS

(Use several sheets if necessary)

Applicant

Canan Uslu Hardwicke et al.

Filing Date

Group

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HEA	AA 6 3 8 3 6 0 2	05/07/02	Fric et al.			
HEA	AB 6 3 6 8 0 6 0	04/09/02	Fehrenbach et al.			
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	No
	AL						
	AM						
	AN						
	AO						
	AP						

OTHER INFORMATION (Including Author, Title, Date, Pertinent pages. Etc.)

HEA	AR	Patent Application, Canan U. Hardwicke et al., Serial Number 10/065,816, filed November 22, 2002, Docket Number 120365-1.
HEA	AS	Ronald S. Bunker, "Film Cooling Effectiveness due to Discrete Holes within a Transverse Surface Slot," IGTI Turbo Expo Int, Gas Turbine Conference and Exposition, June 3-6, 2002, Amsterdam, GT-2002-30178, pp. 1-10.
HEA	AT	Masir Hasan et al., "Film Cooling from a Single row of Cylindrical Angled Holes with Triangular Tabs having different Orientations," ASME Turbo Expo 2001, June 4-7, 2001, New Orleans, Louisiana, USA, 2001-GT-0124, pp. 1-8.

EXAMINER

Thad Almy

DATE CONSIDERED

11/2/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.
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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA					
	BB					
	BC					
	BD					
	BE					
	BF					
	BG					
	BH					
	BI					
	BJ					
	BK					

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	No
	BL						
	BM						
	BN						
	BO						
	BP						

OTHER INFORMATION (Including Author, Title, Date, Pertinent pages, Etc.)

14EA	BR	D. G. Hyams et al., "A Detailed Analysis of Film Cooling Physics: Part III-Streamwise Injection with Shaped Holes," ASME, Volume 122, January 2000, pp. 122-132.
	BS	
	BT	

EXAMINER

Paul Albert

DATE CONSIDERED

11/2/05

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121278-1

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10/611 748

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Applicant

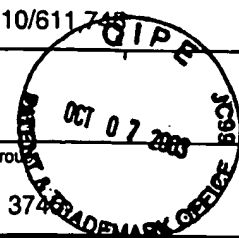
Canan Uslu Hardwicke et al.

Filing Date

June 30, 2003

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374



U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA					
	AB					
	AC					
	AD					
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	AF					
	AG					
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	AL						
	AM						
	AN						
	AO						
	AP						

OTHER INFORMATION (Including Author, Title, Date, Pertinent pages. Etc.)

HEA	AR	K. B. M. Q. Zaman, "Reduction of Jet Penetration in a Cross-flow by Using Tabs", Nasa Lewis Research Center, AIAA-98-3276, 34th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit, July 13-15, 1998, Cleveland, OH, pp. 1-8. ✓
HEA	AS	L. J. S. Bradbury & A. H. Khadem, "The distortion of a jet by tabs", J. Fluid Mech. (1975), vol. 70, part 4, pp. 801-813, ✓
HEA	AT	K. B. M. Q. Zaman & J. K. Foss, "The effect of vortex generators on a jet in a cross-flow", 1997 American Institute of Physics, Phys. Fluids 9 (1), January 1997, pp. 106-114. ✓

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